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Natural Hazards and Earth System Sciences
Discussions

Interactive comment on "Implementation of a Geological Disaster Monitoring and Early Warning System Based on Multi-source Spatial Data: A Case Study of Deqin County, Yunnan Province" *by* Guo-ping Chen et al.

Anonymous Referee #1

Received and published: 23 August 2017

Dear authors;

I have been invited to review your manuscript titled "Implementation of a Geological Disaster Monitoring and Early Warning System Based on Multi-source Spatial Data: A Case Study of Deqin County, Yunnan Province" submitted to NHESS. Manuscript deals about an interesting subject; however based on my review, I suggest some revisions. Please find my specific comments and recommendations in the following:

Section 0: The china geological hazards are explained, but there are not any details

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Discussion paper

and statistics about them on the context. In the other words, the importance of the topic is not well described. Additionally, you did not provide enough references in this part. Also, the innovation aspect of GHMEWS needs to be explained in comparison to similar systems in the world.

Section 2: The procedures for obtaining data should be explained more.

Page 5: In this article, C/S and B/S models are used but the explanation about them are not enough and it is necessary to mention several references.

Section 3:The methodology of combination and weighting information, assessment the risk of geological hazards, simulation the hazard development trend, etc. is very poorly explained.

Section 3:The key factor for identification alarm thresholds, the radius of the blind zone (where no warning can be given because the processing time is too great to send a warning before the geological hazard starts), and the amount of elapsed time for alerting warning must be explain.

Section 4: The results of GHMEWS implementation for mentioned case study has been not clearly shown.

Fig.2: The figure is unclear and difficult to read. Please improve the legibility of it as far as possible.

Finally, sometimes the reading of the paper quite hard. So I advise the author to correct and improve it preferably by a native speaker.

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